	Application No.	Applicant(s)
Notice of Allowability	10/623,811 Examiner	ITAHARA ET AL. Art Unit
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	Phirin Sam	2661
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>06/17/2005</u> .		
2. The allowed claim(s) is/are <u>1-4</u> .		
3. Acknowledgment is made of a claim for foreign priority una a) All b) □ Some* c) □ None of the:		·
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) \square including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	5 	
1. Notice of References Cited (PTO-892)		Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Da	(P10-413), te .
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	8), 7. 🗌 Examiner's Amendr	ment/Comment
Paper No./Mail Date 61405 72104 72203 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	⊠ Examiner's Stateme 9. □ Other	ent of Reasons for Allowance
PHIRIN SAM	O. [] Other	
PRIMARY EXAMINER		

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DETAILED ACTION

Allowable Subject Matter

1. The following is an examiner's statement of reasons for allowance:

Regarding claims 1 and 2, prior arts do not disclose a method of suppressing a peak of a multi-carrier transmission signal a transmission system where filtering processing is performed on each of base-band signals respectively corresponding plurality frequency channels using a filter, the signals subjected to the filtering processing are each multiplied by a predetermined carrier to be single-carrier signals, and single-carrier signals are combined to obtain multi-carrier transmission signal, comprising a combination of steps:

- (1) combining the signals obtained, and thereby obtaining a multi-carrier signal for use in calculating a correction value for peak suppression;
- (2) detecting an instantaneous peak of the multi-carrier signal for use in calculating the correction value, and based on the detection result, obtaining the correction value for peak suppression; and
- (3) multiplying each of the base-band signals on the regular signal processing route by the correction value to perform correction for peak suppression.

Regarding claims 3 and 4, the prior arts do not disclose a multi-carrier transmission signal generating circuit with peak suppressing function, comprising a combination of:

- (1) multiplying each of the signals by a correction value for peak suppression in a multiplier, performing n-time (n is an integer of two or more) interpolation processing on each of the signals multiplied by the correction value;
- (2) obtaining a multi-carrier signal for use in calculating the correction value, detecting an instantaneous peak of the multi-carrier signal for use in calculating the correction value, and

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obtaining the correction value for peak suppression based on the detection value to provide to the

multiplier in the regular signal processing route.

Conclusion

2. Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

3. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Phirin Sam whose telephone number is (571) 272-3082. The

examiner can normally be reached on Mon-Fri, 8:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Chau T. Nguyen can be reached on (571) 272 - 3126. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Respectfully submitted,

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Date: September 9, 2005

PHIRIN SAM